

Occupational Injuries and Illnesses and Work-related Fatalities

Technical Note

The series covers two separate programs of the Bureau of Labor Statistics—the annual Survey of Occupational Injuries and Illnesses (SOII) and the Census of Fatal Occupational Injuries (CFOI). Data from both programs are used by employers, workers, and safety and health specialists in efforts to prevent job-related injuries and illnesses and lessen the severity of those that do occur.

The SOII, in cooperation with State agencies, gathers information from employers on the number of nonfatal work-related injuries and illnesses. Each year the survey provides estimates by industry and by State of the number and incidence of workplace injuries and illnesses, and the number of injuries and illnesses that involve lost work time. The median number of days away from work and the percent distribution of days away from work by industry are also given.

For workers with injuries and illnesses involving time away from work, the survey estimates the number and percent distribution by occupation, sex, age, race, Hispanic origin, and length of service. Numbers, percent distributions, and incidence rates are also calculated by detailed nature of injury and illness, part of body affected, source of the injury or illness, and type of event or exposure leading to the incident. Cross tabulations of the worker characteristics and injury/illness circumstances are also available. The median and percent distribution of days away from work are estimated for each worker and case characteristic.

Additional information can be obtained from the annual bulletin: *Occupational Injuries and Illnesses: Counts, Rates, and Characteristics*.

The CFOI collects a systematic, verifiable count of all fatal work injuries as well as detailed information on how these events occurred. Because studies have shown that no single source captures all worker deaths, multiple data sources are used to identify, verify, and profile fatal work injuries. Death certificates, State and Federal workers' compensation reports, Occupational Safety and Health Administration (OSHA) fatality reports, news media, coroner, medical examiner, and autopsy reports, State motor vehicle fatality reports, and follow-up questionnaires are among the major sources used to compile the Federal Government's most complete count of job-related fatalities.

Information such as type of incident and machinery or equipment involved; nature of injury and part of body affected; occupation, age, race, and sex of the worker; and industry of the employer is collected for each fatal injury.

Summary tables are released approximately 8 months after the end of the reference year. Profiles of fatalities occurring to specific groups of workers, or for specific types of events, or for those involving certain types of equipment or machinery are also possible.

Additional information

For more detailed information on these programs, contact the Office of Safety, Health, and Working Conditions, Bureau of Labor Statistics, Room 3180, 2 Massachusetts Avenue, NE, Washington, DC 20212. Telephone: (202) 606-6175. E-mail: CFOI_staff@bls.gov World Wide Web access: <http://stats.bls.gov>

TABLE E-1. **Fatal occupational injuries to private sector wage and salary workers, government workers, and self-employed workers by industry, 1997**

Industry ¹	Fatalities		Workers					
	Number	Percent	Private sector wage and salary		Government		Self-employed	
			Number	Percent	Number	Percent	Number	Percent
Total	6,218	100.0	4,335	100.0	624	100.0	1,259	100.0
Agriculture, forestry and fishing	833	13.4	328	7.6	—	—	502	39.9
Agricultural production - crops	373	6.0	100	2.3	—	—	273	21.7
Field crops, except cash grains	53	.9	16	.4	—	—	37	2.9
General farms, primarily crop	224	3.6	35	.8	—	—	189	15.0
Agricultural production - livestock	182	2.9	54	1.2	—	—	128	10.2
Livestock, except dairy and poultry	63	1.0	20	.5	—	—	43	3.4
Dairy farms	60	1.0	18	.4	—	—	42	3.3
Agricultural services	177	2.8	133	3.1	—	—	43	3.4
Landscape and horticultural services	109	1.8	76	1.8	—	—	32	2.5
Ornamental shrub and tree services	67	1.1	48	1.1	—	—	18	1.4
Fishing, hunting, and trapping	63	1.0	31	.7	—	—	32	2.5
Commercial fishing	61	1.0	30	.7	—	—	31	2.5
Mining	158	2.5	142	3.3	—	—	16	1.3
Oil and gas extraction	85	1.4	74	1.7	—	—	11	.9
Oil and gas field services	76	1.2	67	1.5	—	—	9	.7
Construction	1,137	18.3	918	21.2	30	4.8	189	15.0
General building contractors	194	3.1	152	3.5	—	—	42	3.3
Residential building construction	89	1.4	65	1.5	—	—	24	1.9
Single-family housing construction	65	1.0	46	1.1	—	—	19	1.5
Nonresidential building construction	92	1.5	80	1.8	—	—	12	1.0
Nonresidential construction, n.e.c.	53	.9	47	1.1	—	—	6	.5
Heavy construction, except building	280	4.5	236	5.4	28	4.5	16	1.3
Highway and street construction	109	1.8	75	1.7	27	4.3	7	.6
Heavy construction, except highway	164	2.6	157	3.6	—	—	6	.5
Water, sewer, and utility lines	73	1.2	69	1.6	—	—	—	—
Heavy construction, n.e.c.	69	1.1	66	1.5	—	—	—	—
Special trades contractors	650	10.5	520	12.0	—	—	128	10.2
Plumbing, heating and air-conditioning	61	1.0	45	1.0	—	—	16	1.3
Electrical work	83	1.3	66	1.5	—	—	16	1.3
Roofing, siding, and sheet metal work	104	1.7	87	2.0	—	—	17	1.4
Miscellaneous special trade contractors	222	3.6	186	4.3	—	—	35	2.8
Excavation work	50	.8	43	1.0	—	—	7	.6
Special trade contractors, n.e.c.	77	1.2	61	1.4	—	—	16	1.3
Manufacturing	745	12.0	666	15.4	—	—	77	6.1
Food and kindred products	78	1.3	77	1.8	—	—	—	—
Lumber and wood products	199	3.2	141	3.3	—	—	58	4.6
Logging	136	2.2	81	1.9	—	—	55	4.4
Primary metal industries	59	.9	59	1.4	—	—	—	—
Fabricated metal products	50	.8	50	1.2	—	—	—	—
Industrial machinery and equipment	70	1.1	65	1.5	—	—	4	.3
Transportation equipment	58	.9	52	1.2	—	—	5	.4
Transportation and public utilities	1,059	17.0	907	20.9	57	9.1	95	7.5
Local and interurban passenger transportation	114	1.8	87	2.0	8	1.3	19	1.5
Taxicabs	94	1.5	76	1.8	—	—	17	1.4
Trucking and warehousing	570	9.2	508	11.7	—	—	61	4.8
Trucking and courier services, except air ..	517	8.3	461	10.6	—	—	55	4.4
Local trucking, without storage	125	2.0	105	2.4	—	—	19	1.5
Trucking, except local	329	5.3	301	6.9	—	—	28	2.2

See footnotes at end of table.

TABLE E-1. **Fatal occupational injuries to private sector wage and salary workers, government workers, and self-employed workers by industry, 1997** - Continued

Industry ¹	Fatalities		Workers					
	Number	Percent	Private sector wage and salary		Government		Self-employed	
			Number	Percent	Number	Percent	Number	Percent
Water transportation	75	1.2	70	1.6	—	—	—	—
Transportation by air	84	1.4	75	1.7	—	—	8	0.6
Electric, gas, and sanitary services	115	1.8	87	2.0	26	4.2	—	—
Wholesale trade	241	3.9	218	5.0	—	—	23	1.8
Wholesale trade-durable goods	140	2.3	124	2.9	—	—	16	1.3
Wholesale trade-nondurable goods	100	1.6	93	2.1	—	—	7	.6
Retail trade	665	10.7	466	10.7	—	—	199	15.8
Food stores	189	3.0	113	2.6	—	—	76	6.0
Grocery stores	169	2.7	100	2.3	—	—	69	5.5
Automotive dealers and service stations	115	1.8	97	2.2	—	—	18	1.4
Eating and drinking places	150	2.4	116	2.7	—	—	34	2.7
Eating places	105	1.7	85	2.0	—	—	20	1.6
Miscellaneous retail	125	2.0	81	1.9	—	—	44	3.5
Finance, insurance, and real estate	102	1.6	86	2.0	5	.8	11	.9
Real estate	52	.8	41	.9	4	.6	7	.6
Services	806	13.0	579	13.4	84	13.5	143	11.4
Business services	181	2.9	155	3.6	—	—	26	2.1
Miscellaneous business services	83	1.3	73	1.7	—	—	10	.8
Automotive repair, services, and parking	109	1.8	73	1.7	—	—	36	2.9
Automotive repair shops	68	1.1	42	1.0	—	—	26	2.1
Amusement and recreation services	89	1.4	62	1.4	9	1.4	18	1.4
Miscellaneous amusement, recreation services	68	1.1	49	1.1	9	1.4	10	.8
Health services	78	1.3	63	1.5	8	1.3	7	.6
Educational services	89	1.4	24	.6	58	9.3	7	.6
Public administration	441	7.1	—	—	441	70.7	—	—
Justice, public order, and safety	214	3.4	—	—	214	34.3	—	—
Public order and safety	211	3.4	—	—	211	33.8	—	—
Police protection	142	2.3	—	—	142	22.8	—	—
Fire protection	51	.8	—	—	51	8.2	—	—
National security and international affairs	113	1.8	—	—	113	18.1	—	—
National security	110	1.8	—	—	110	17.6	—	—

¹ *Standard Industrial Classification Manual, 1987.*

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet

publication criteria.

n.e.c. means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1997.

TABLE E-2. Fatal occupational injuries by industry and event or exposure, 1997

Industry ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Total	6,218	41.8	17.7	16.6	11.5	8.8	3.2
Private industry	5,594	40.2	17.6	17.8	12.3	8.9	3.0
Agriculture, forestry and fishing	830	49.0	7.3	24.9	7.8	8.6	2.3
Agricultural production - crops	373	53.9	5.4	28.7	4.0	5.9	2.1
Field crops, except cash grains	53	41.5	13.2	30.2	—	9.4	—
General farms, primarily crop	224	57.6	2.2	29.0	4.9	4.0	2.2
Agricultural production - livestock	182	46.7	14.8	20.9	7.1	7.1	3.3
Livestock, except dairy and poultry	63	39.7	27.0	15.9	7.9	7.9	—
Dairy farms	60	48.3	10.0	30.0	6.7	—	—
Agricultural services	176	32.4	5.7	25.6	19.3	15.9	—
Landscape and horticultural services	108	19.4	—	31.5	25.9	20.4	—
Ornamental shrub and tree services	66	10.6	—	37.9	33.3	18.2	—
Fishing, hunting, and trapping	63	76.2	—	6.3	—	12.7	—
Commercial fishing	61	77.0	—	6.6	—	13.1	—
Mining	158	29.7	—	38.6	8.9	8.9	11.4
Oil and gas extraction	85	27.1	—	28.2	14.1	8.2	18.8
Oil and gas field services	76	28.9	—	28.9	14.5	7.9	19.7
Construction	1,107	25.6	2.9	18.1	34.1	16.8	2.3
General building contractors	194	24.2	5.2	13.9	40.2	14.9	—
Residential building construction	89	24.7	7.9	20.2	34.8	10.1	—
Single-family housing construction	65	32.3	7.7	13.8	35.4	7.7	—
Nonresidential building construction	92	22.8	—	8.7	47.8	19.6	—
Nonresidential construction, n.e.c.	53	18.9	—	7.5	47.2	24.5	—
Heavy construction, except building	252	43.7	—	27.0	9.9	14.7	3.2
Highway and street construction	82	68.3	—	14.6	6.1	6.1	—
Heavy construction, except highway	163	31.9	—	34.4	9.8	19.6	3.1
Water, sewer, and utility lines	72	27.8	—	31.9	12.5	27.8	—
Heavy construction, n.e.c.	69	33.3	—	37.7	7.2	13.0	5.8
Special trades contractors	648	18.8	2.3	16.2	41.8	18.4	2.3
Plumbing, heating and air-conditioning	61	21.3	—	14.8	34.4	26.2	—
Electrical work	82	25.6	—	7.3	23.2	41.5	—
Roofing, siding, and sheet metal work ...	104	9.6	—	—	71.2	17.3	—
Miscellaneous special trade contractors	221	19.0	2.7	28.5	35.7	10.4	3.6
Excavation work	50	44.0	—	46.0	—	8.0	—
Special trade contractors, n.e.c.	77	20.8	—	24.7	31.2	13.0	6.5
Manufacturing	743	29.6	8.9	39.7	7.4	8.2	5.4
Food and kindred products	78	41.0	10.3	25.6	10.3	11.5	—
Lumber and wood products	199	24.6	—	66.8	3.5	2.5	—
Logging	136	22.8	—	73.5	—	—	—
Primary metal industries	59	22.0	—	42.4	8.5	15.3	8.5
Fabricated metal products	50	10.0	12.0	46.0	16.0	—	10.0
Industrial machinery and equipment	69	29.0	14.5	37.7	5.8	7.2	5.8
Transportation equipment	57	33.3	19.3	17.5	14.0	7.0	7.0

See footnotes at end of table.

TABLE E-2. **Fatal occupational injuries by industry and event or exposure, 1997** - Continued

Industry ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Transportation and public utilities	1,002	69.4	12.7	7.0	3.7	5.5	1.5
Local and interurban passenger transportation	106	25.5	73.6	—	—	—	—
Taxicabs	93	20.4	79.6	—	—	—	—
Trucking and warehousing	569	81.0	5.1	6.9	3.7	2.3	.9
Trucking and courier services, except air	516	83.9	4.8	5.6	2.9	1.9	—
Local trucking, without storage	124	78.2	7.3	8.1	—	3.2	—
Trucking, except local	329	85.7	4.0	4.9	2.7	1.8	—
Water transportation	72	66.7	9.7	11.1	—	11.1	—
Transportation by air	83	88.0	—	—	—	—	—
Electric, gas, and sanitary services	89	33.7	5.6	14.6	4.5	30.3	11.2
Wholesale trade	241	51.0	12.4	18.3	6.6	7.1	4.1
Wholesale trade-durable goods	140	44.3	15.0	22.9	5.7	5.7	6.4
Wholesale trade-nondurable goods	100	60.0	9.0	12.0	8.0	9.0	—
Retail trade	665	19.2	63.9	4.5	5.0	4.7	2.4
Food stores	189	9.0	81.5	—	3.7	2.1	2.1
Grocery stores	169	5.9	84.6	—	4.1	—	—
Automotive dealers and service stations	115	27.0	48.7	8.7	—	7.0	5.2
Eating and drinking places	150	10.0	78.0	—	4.7	4.7	—
Eating places	105	12.4	72.4	—	5.7	5.7	—
Miscellaneous retail	125	32.8	51.2	6.4	4.8	3.2	—
Finance, insurance, and real estate	97	38.1	36.1	4.1	16.5	4.1	—
Services	722	40.7	27.1	11.5	9.4	7.9	3.0
Business services	181	42.0	24.3	11.0	9.9	10.5	2.2
Miscellaneous business services	83	34.9	38.6	10.8	6.0	6.0	—
Automotive repair, services, and parking	109	33.0	24.8	25.7	—	7.3	5.5
Automotive repair shops	68	23.5	25.0	29.4	—	8.8	8.8
Amusement and recreation services	80	42.5	21.2	6.2	12.5	11.2	6.2
Miscellaneous amusement, recreation services	59	39.0	22.0	—	11.9	13.6	8.5
Health services	70	57.1	30.0	—	—	5.7	—
Government ⁵	624	56.6	19.4	6.1	4.5	8.5	4.6
Federal government (including resident armed forces)	162	69.1	13.0	5.6	4.3	7.4	—
Public administration	143	68.5	11.9	6.3	4.9	7.7	—
National security and international affairs	110	70.0	10.9	4.5	4.5	9.1	—
National security	108	70.4	11.1	4.6	3.7	9.3	—
State government	127	66.9	17.3	3.9	4.7	3.9	3.1

See footnotes at end of table.

TABLE E-2. **Fatal occupational injuries by industry and event or exposure, 1997** - Continued

Industry ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Public administration	77	59.7	24.7	—	6.5	—	—
Local government	331	46.5	23.0	7.3	4.5	10.9	7.6
Services	54	57.4	11.1	9.3	7.4	13.0	—
Public administration	219	46.1	29.2	5.9	2.7	5.9	10.0
Justice, public order, and safety	165	44.2	33.9	3.0	—	3.6	13.3
Public order and safety	165	44.2	33.9	3.0	—	3.6	13.3
Police protection	113	46.9	48.7	—	—	—	—
Fire protection	50	38.0	—	10.0	—	—	44.0

¹ *Standard Industrial Classification Manual, 1987.*

² Based on the 1992 BLS Occupational Injury and Illness Classification Manual. Includes other events and exposures, such as bodily reaction, in addition to those shown separately.

³ Includes highway, nonhighway, air, water, and rail fatalities.

⁴ Includes violence by persons, self-inflicted injury, and assaults by animals.

⁵ Includes fatalities to workers employed by governmental organizations

regardless of industry.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet publication criteria.

n.e.c. means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1997.

TABLE E-3. Fatal occupational injuries by event or exposure and gender, 1997

Event or exposure ¹	Total fatalities		Men		Women	
	Number	Percent	Number	Percent	Number	Percent
Total	6,218	100.0	5,743	100.0	475	100.0
Transportation incidents	2,599	41.8	2,372	41.3	227	47.8
Highway	1,387	22.3	1,217	21.2	170	35.8
Collision between vehicles, mobile equipment	639	10.3	532	9.3	107	22.5
Re-entrant collision	8	.1	6	.1	—	—
Moving in same direction	103	1.7	91	1.6	12	2.5
Moving in opposite directions, oncoming	229	3.7	181	3.2	48	10.1
Moving in intersection	142	2.3	116	2.0	26	5.5
Moving and standing vehicle, mobile equipment-in roadway	24	.4	23	.4	—	—
Moving and standing vehicle, mobile equipment-side of road	21	.3	20	.3	—	—
Vehicle struck stationary object or equipment in roadway	22	.4	20	.3	—	—
Vehicle struck stationary object or equipment on side of road	258	4.1	241	4.2	17	3.6
Noncollision	384	6.2	350	6.1	34	7.2
Jack-knifed or overturned--no collision	295	4.7	268	4.7	27	5.7
Ran off highway--no collision	48	.8	42	.7	6	1.3
Struck by shifting load	3	(²)	3	.1	—	—
Sudden start or stop, n.e.c.	4	.1	4	.1	—	—
Nonhighway (farm, industrial premises)	377	6.1	368	6.4	9	1.9
Collision between vehicles or mobile equipment	15	.2	15	.3	—	—
Vehicle, mobile equipment struck stationary object	24	.4	23	.4	—	—
Noncollision accident	328	5.3	320	5.6	8	1.7
Fall from moving vehicle, mobile equipment	17	.3	16	.3	—	—
Fell from and struck by vehicle, mobile equipment	71	1.1	71	1.2	—	—
Overturned	216	3.5	210	3.7	6	1.3
Loss of control	4	.1	4	.1	—	—
Struck by shifting load	5	.1	5	.1	—	—
Aircraft	261	4.2	241	4.2	20	4.2
Worker struck by vehicle, mobile equipment	367	5.9	343	6.0	24	5.1
Worker struck by vehicle, mobile equipment in roadway	128	2.1	116	2.0	12	2.5
Worker struck by vehicle, mobile equipment on side of road	57	.9	57	1.0	—	—
Worker struck by vehicle, mobile equipment in parking lot or non-road area	160	2.6	148	2.6	12	2.5
Water vehicle	109	1.8	107	1.9	—	—
Collision	8	.1	8	.1	—	—
Explosion, fire, n.e.c.	4	.1	4	.1	—	—
Fall from ship or boat, n.e.c.	37	.6	37	.6	—	—
Fall on ship, boat	7	.1	7	.1	—	—
Sinking, capsized water vehicle	37	.6	35	.6	—	—
Railway	93	1.5	92	1.6	—	—
Collision between railway vehicles	7	.1	7	.1	—	—
Collision between railway vehicle and other vehicle	72	1.2	72	1.3	—	—
Fell from and struck by railway vehicle	6	.1	6	.1	—	—
Assaults and violent acts	1,103	17.7	936	16.3	167	35.2
Homicides	856	13.8	711	12.4	145	30.5
Hitting, kicking, beating	47	.8	38	.7	9	1.9
Shooting	705	11.3	599	10.4	106	22.3
Stabbing	73	1.2	57	1.0	16	3.4
Assaults and violent acts by person(s), n.e.c.	26	.4	15	.3	11	2.3
Self-inflicted injury	212	3.4	193	3.4	19	4.0

See footnotes at end of table.

TABLE E-3. **Fatal occupational injuries by event or exposure and gender, 1997** - Continued

Event or exposure ¹	Total fatalities		Men		Women	
	Number	Percent	Number	Percent	Number	Percent
Assaults by animals	33	0.5	30	0.5	3	0.6
Contact with objects and equipment	1,034	16.6	1,008	17.6	26	5.5
Struck by object	578	9.3	569	9.9	9	1.9
Struck by falling object	384	6.2	379	6.6	5	1.1
Struck by flying object	53	.9	51	.9	—	—
Struck by discharged object or substance	22	.4	22	.4	—	—
Struck by swinging or slipping object	43	.7	42	.7	—	—
Struck by rolling, sliding objects on floor or ground level	68	1.1	67	1.2	—	—
Caught in or compressed by equipment or objects ...	320	5.1	309	5.4	11	2.3
Caught in running equipment or machinery	189	3.0	180	3.1	9	1.9
Compressed or pinched by rolling, sliding, or shifting objects	55	.9	53	.9	—	—
Caught in or crushed in collapsing materials	118	1.9	114	2.0	4	.8
Excavation or trenching cave-in	35	.6	34	.6	—	—
Other cave-in	9	.1	9	.2	—	—
Caught in or crushed in collapsing structure	38	.6	37	.6	—	—
Falls	715	11.5	693	12.1	22	4.6
Fall to lower level	652	10.5	642	11.2	10	2.1
Fall down stairs or steps	13	.2	10	.2	3	.6
Fall from floor, dock, or ground level	40	.6	40	.7	—	—
Fall from ladder	116	1.9	113	2.0	3	.6
Fall from piled or stacked material	5	.1	5	.1	—	—
Fall from roof	154	2.5	154	2.7	—	—
Fall from scaffold, staging	87	1.4	87	1.5	—	—
Fall from building girders or other structural steel	48	.8	47	.8	—	—
Fall from nonmoving vehicle	53	.9	53	.9	—	—
Jump to lower level	4	.1	3	.1	—	—
Fall on same level	44	.7	35	.6	9	1.9
Exposure to harmful substances or environments ..	550	8.8	530	9.2	20	4.2
Contact with electric current	297	4.8	290	5.0	7	1.5
Contact with electric current of machine, tool, appliance, light fixture	41	.7	41	.7	—	—
Contact with wiring, transformers, or other electrical component	71	1.1	70	1.2	—	—
Contact with overhead power lines	138	2.2	134	2.3	4	.8
Contact with underground, buried power lines	5	.1	5	.1	—	—
Struck by lightning	21	.3	20	.3	—	—
Contact with temperature extremes	40	.6	40	.7	—	—
Exposure to environmental heat	22	.4	22	.4	—	—
Contact with hot objects or substances	17	.3	17	.3	—	—
Exposure to caustic, noxious, or allergenic substances	123	2.0	115	2.0	8	1.7
Inhalation of substance	59	.9	58	1.0	—	—
Inhalation in enclosed, restricted, or confined space ³	25	.4	25	.4	—	—
Inhalation in open or nonconfined space	19	.3	18	.3	—	—
Injections, stings, venomous bites	23	.4	19	.3	4	.8
Needle sticks	7	.1	4	.1	3	.6
Bee, wasp, hornet sting	10	.2	10	.2	—	—
Ingestion of substance	26	.4	26	.5	—	—
Oxygen deficiency	87	1.4	83	1.4	4	.8
Drowning, submersion	70	1.1	68	1.2	—	—
Depletion of oxygen in other enclosed, restricted, or confined space ³	5	.1	5	.1	—	—
Fires and explosions	196	3.2	186	3.2	10	2.1

See footnotes at end of table.

TABLE E-3. **Fatal occupational injuries by event or exposure and gender, 1997** - Continued

Event or exposure ¹	Total fatalities		Men		Women	
	Number	Percent	Number	Percent	Number	Percent
Fires--unintended or uncontrolled	87	1.4	84	1.5	3	0.6
Fires, unspecified	5	.1	5	.1	—	—
Fire in residence, building, or other structure	39	.6	37	.6	—	—
Forest, brush, or other outdoor fire	8	.1	7	.1	—	—
Ignition of clothing from controlled heat source	7	.1	7	.1	—	—
Explosion	109	1.8	102	1.8	7	1.5
Explosion, unspecified	6	.1	3	.1	3	.6
Explosion of pressure vessel or piping	37	.6	37	.6	—	—
Other events or exposures⁴	21	.3	18	.3	3	.6

¹ Based on the 1992 BLS Occupational Injury and Illness Classification Manual.

² Less than 0.5 percent.

³ Includes fatalities that are not considered to be permit required confined spaces as defined by the Occupational Safety and Health Administration in its regulation of these structures.

⁴ Includes the category "Bodily reaction and exertion."

NOTE: Totals for major categories may include subcategories not

shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet publication criteria.

n.e.c. means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1997.

TABLE E-4. Fatal occupational injuries by location of incident and event or exposure, 1997

Location	Total fatalities (number)	Event or exposure ¹ (percent)					
		Transportation incidents ²	Assaults and violent acts ³	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Total	6,218	41.8	17.7	16.6	11.5	8.8	3.2
Street or highway	1,885	87.1	6.9	2.3	.9	2.5	.3
Interstate, freeway, or expressway	392	96.4	2.0	—	—	—	—
Other highway (State or U.S.)	614	96.3	2.0	—	—	1.3	—
Local road or street	571	74.1	16.6	3.9	1.2	4.0	—
Road construction	58	70.7	—	12.1	—	10.3	—
Industrial place or premise	1,518	15.7	7.4	31.6	24.6	13.3	7.0
Industrial place and premises, unspecified	85	11.8	5.9	43.5	16.5	14.1	8.2
Dockyard	46	37.0	—	23.9	15.2	13.0	—
Industrial yard	92	21.7	8.7	38.0	13.0	9.8	8.7
Loading platform, factory or store	45	26.7	—	40.0	26.7	—	—
Railway yard, includes railway line, tracks	80	81.2	5.0	6.2	5.0	—	—
Warehouse	77	15.6	18.2	16.9	35.1	10.4	—
Construction site	483	11.0	1.0	26.3	44.1	15.9	1.2
Factory, plant	359	6.7	11.1	40.1	13.1	15.0	13.1
Industrial place or premises, n.e.c.	251	10.0	13.5	35.9	14.7	13.1	12.4
Other specified place⁴	833	43.2	16.0	20.6	7.0	10.1	2.6
Parking lot, garage (employer's premises)	126	14.3	53.2	13.5	10.3	5.6	3.2
Parking lot, garage (except employer's premises)	67	7.5	47.8	13.4	13.4	11.9	—
River, lake, pond or stream	71	69.0	—	—	—	23.9	—
Sea	120	72.5	5.0	5.0	—	12.5	4.2
Public building⁵	814	1.5	71.1	4.2	11.7	8.1	2.8
Bank	21	—	76.2	—	—	—	—
Hotel, motel	36	—	58.3	11.1	13.9	13.9	—
Grocery or convenience store	142	—	93.0	—	—	—	—
Office building	105	—	66.7	—	16.2	14.3	—
Restaurant, cafe	107	—	86.0	—	—	6.5	4.7
Shop, commercial, store, (except grocery)	215	2.8	79.1	5.1	4.2	5.1	2.8
School (State, public, private)	38	—	13.2	—	42.1	28.9	—
Farm	631	45.0	7.6	29.5	5.7	9.7	2.5
Farm buildings, except silos	44	—	18.2	27.3	29.5	13.6	—
Farm land under cultivation, fields, meadows ...	278	63.3	5.0	21.6	2.9	5.8	1.4
Farm pond, creek, canal, irrigation ditch	20	55.0	—	30.0	—	—	—
Silo, grain bin	37	—	—	64.9	—	16.2	—
Private residence⁶	301	4.7	21.6	14.3	33.9	20.3	5.3
Apartment	41	—	41.5	—	41.5	14.6	—
Farm house	9	—	66.7	—	—	—	—
Mine, quarry	82	22.0	—	59.8	6.1	8.5	—
Gravel, sand pit	23	30.4	—	52.2	—	—	—
Mine	36	16.7	—	66.7	—	11.1	—
Place for recreation and sport	82	28.0	19.5	20.7	17.1	9.8	—
Recreation, sports center on employer's premises	9	—	—	—	55.6	—	—

See footnotes at end of table.

TABLE E-4. **Fatal occupational injuries by location of incident and event or exposure, 1997** - Continued

Location	Total fatalities (number)	Event or exposure ¹ (percent)					
		Transportation incidents ²	Assaults and violent acts ³	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Recreational and sports areas	56	35.7	23.2	21.4	14.3	—	—
Residential institution ⁷	23	—	43.5	—	21.7	—	—
Prison, jail, detention home	8	—	50.0	—	—	—	—
Unspecified place	49	14.3	18.4	12.2	20.4	26.5	—

¹ Based on the 1992 BLS Occupational Injury and Illness Classification Manual. Includes other events and exposures, such as bodily reaction, in addition to those shown separately.

² Includes highway, nonhighway, air, water, and rail fatalities.

³ Includes violence by persons, self-inflicted injury, and assaults by animals.

⁴ Primarily includes outdoor areas such as bodies of water, woods, noncultivated fields, and parking lots.

⁵ Buildings and adjacent grounds used by the general public or a particular group, such as hotels, restaurants, stores, office buildings, courthouses, and schools.

⁶ These fatalities primarily occurred to repair or maintenance workers or

to police while on duty.

⁷ Includes children's home, dormitory, hospital, jail, nursing home, and reform school.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet publication criteria.

n.e.c. means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1997.